

Remarks

In the Disclosure, a minor amendment has been made to paragraph [0040] to correct a typographical error.

In the Claims, minor amendments have been made to correct spelling, grammar and syntax.

No new matter has been added.

Respectfully,

A handwritten signature in black ink, appearing to read 'G Fre', with a long horizontal flourish extending to the right.

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ATTACHMENT A

Clean Replacement Disclosure, Claims and Abstract

including amendments to Para [0040], and Claims 1, 2, 3, 5, 6, 12, 15 and 27

ATTACHMENT B
Marked Up Paragraph and Claims

A marked up copy of paragraph 0040 is provided as follows:

[0040] Fig. 6 illustrates another method for synchronizing a timing device 4 of a client station 1 according to the invention. The client station 1 sends 601 a plurality of packets, each at a predetermined time via communications network 2 to time server [4] 3. Upon receipt 602 of the packets the time server 3 determines 604 data indicative of a correct time of receipt of each of the plurality of packets and time stamps 606 each of the packets with the data indicative of the correct time of receipt of the packet. The time stamped packets are then returned 608 to the client station 1 via the communications network 2. Upon receipt 609 of the packets the client station 1 determines 611 data indicative of a local time of receipt for each of the plurality of packets. In step 613 the packets are analyzed in order to determine data in dependence upon round trip delay and variations in spacing between consecutive packets. These data are then compared to threshold values 615 and if the data are within the threshold values data indicative of a time correction are determined 617. In step 619 the timing device 4 of the client station 1 is synchronized according to the data indicative of a time correction.

A marked up copy of Claims 1, 2, 3, 5, 6, 12, 15 and 27 is provided as follows:

1. (Amended) A method of synchronizing a timing device of a client station comprising the steps of:
 - a) sending a plurality of packets, each packet being sent at a predetermined time having a predetermined temporal spacing from other packets, from a time server to the client station via a communications network;
 - b) receiving the plurality of packets at the client station;
 - c) determining a time indicative of a local time of receipt of the plurality of packets at the client station and storing time data in dependence thereon;

- d) returning the plurality of packets to the time server via the communications network;
- e) determining a time indicative of a local time of receipt of the plurality of packets at the time server; and,
- f) determining [synchronisation] synchronization data in dependence upon round trip delay of the packets and variance in temporal spacing of received packets.

2. (Amended) A method of synchronizing a timing device of a client station as defined in claim 1, comprising the steps of:

- g) comparing the [synchronisation] synchronization data to threshold values;
- h) determining data indicative of a time correction if the determined data of step f) are within the threshold values; and,
- i) sending a signal comprising the data indicative of a time correction from the time server to the client station.

3. (Amended) A method of synchronizing a timing device of a client station as defined in claim 1, comprising the step of:

- g) comparing the [synchronisation] synchronization data to threshold values; and,
- h) repeating steps a) to f) if the data determined in step f) are not within the threshold values.

5. (Amended) A method of synchronizing a timing device of a client station as defined in claim 2, comprising the steps of:

j) receiving the signal comprising the data indicative of a [correct] time correction at the client station; and,

k) synchronizing the timing device of the client station in dependence upon the received signal.

6. (Amended) A method of synchronizing a timing device of a client station as defined in claim 1, wherein during the step a) the time server sends a plurality of packets, each packet being sent at a predetermined time, to each of a plurality of client stations via [a] the communications network.

12. (Amended) A method of synchronizing a timing device of a client station as defined in claim 2, wherein step i) comprises the step of:

signing securely at the time server the signal comprising the data indicative of a time correction [is signed securely at the time server].

15. (Amended) A method of synchronizing a timing device of a client station as defined in claim 1, comprising the step[s] of:

providing a warning signal if the round trip delays of the packets are not within a threshold value, the threshold value being determined using a statistical estimate of round trip delays of the communications network.

27. (Amended) A method of synchronizing a timing device coupled to a communications network as defined in claim [25] 21, wherein in step (c) each of the packets is time stamped with a local time of the second node.